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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,398	11/15/2006	Masayoshi Son	280102US2XPCT	4616
22850	7590	05/12/2008		
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER				
DALEY, CHRISTOPHER ANTHONY				
ART UNIT		PAPER NUMBER		
2111				
NOTIFICATION DATE		DELIVERY MODE		
05/12/2008		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/554,398

Applicant(s)

SON ET AL.

Examiner

CHRISTOPHER A. DALEY

Art Unit

2111

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10/24/05 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/CS-100)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

1. Claims 1 – 7 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Mowery et al (US7136950) hereinafter Mowery in view of Huang et al

(US20020111771) herein after Huang.

4. As to claims 1, and 5, Mowery discloses A PC card having a connection plug connectable to an information processing apparatus, and a card connector through which an additional card can be connected, wherein multiple capabilities are added to said information processing apparatus by connecting said PC card to said information processing apparatus, said PC card comprising: a communication control unit configured to control communication between said information processing apparatus and a function control unit of said PC card, and communication between said information processing apparatus and a function control unit of said additional card (Figure 1 illustrates a system comprising of a PCI bus that couples PC card controller, which is coupled to another controller card such as media interface card 120, COL. 2, lines 13 – 33); and an area builder unit configured to analyze a card information

structure of said additional card, build a global card information structure from the card information structure of said additional card together with a card information structure of said PC card, analyze card configuration information of said additional card, and build a global register area from the card configuration information of said additional card together with a card configuration information of said PC card.

However, Huang teaches an area builder unit configured to analyze a card information structure of said additional card, build a global card information structure from the card information structure of said additional card together with a card information structure of said PC card, analyze card configuration information of said additional card, and build a global register area from the card configuration information of said additional card together with a card configuration information of said PC card as illustrated in Figure 9. Said figure illustrates the logic and registers to manage to plurality of interfaces it need to control, page 5, paragraph 0060.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the control logic of Huang in the system of Mowery to manage the plurality of expansion cards, page 1, paragraph 0002.

5. As to claims 2 and 6, Huang discloses the PC card further comprising an address control unit configured to switch address operations in order that a functional register group of said PC card is located in an I/O area of said PC card when said information processing apparatus outputs an I/O area control signal for accessing the function of said PC card, and that a functional register group of said additional card is

located in the I/O area of said PC card when said information processing apparatus outputs an I/O area control signal for accessing the function of said additional card (Determination of which port will be enabled, page 6, paragraph 0062).

6. As to claims 3 and 7, Huang discloses the PC card further comprising an interrupt request control unit that, when an interrupt request is received from the function control unit of said PC card or the function control unit of said additional card, sets information about said interrupt request in an interrupt cause register (Figure 10 , step 1006 enables a certain slot to be active, page 6, paragraph 0064).

7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mowery in view of Huang and in further view of Sakurai (US6832104).

8. As to claim 4, Mowery as modified by Huang does not discloses the PC card wherein the function control unit of said PC card is provided with a wireless LAN communication capability, and the function control unit of said additional card is provided with a PHS communication capability.

However, Sakurai teaches the PC card wherein the function control unit of said PC card is provided with a wireless LAN communication capability, and the function control unit of said additional card is provided with a PHS communication capability. Information device with PHS capability taught, COL. 1, lines 13 – 26.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have the full features of Sakurai in the system of Mowery/Huang to support wireless

networks anywhere, COL. 1, lines 47 – 56. One of ordinary skill in the art would have been motivated to embed the full features of Sakurai in the system of Mowery/Huang to support wireless networks anywhere, COL. 1, lines 47 – 56.

Conclusion

Accordingly, **THIS ACTION IS non-final**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this non-final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this non-final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **CHRISTOPHER A. DALEY** whose telephone number is (571)272-3625. The examiner can normally be reached on 9 am. - 4p m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571 272 3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2111

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher A Daley/
Examiner, Art Unit 2111

/MARK RINEHART/
Supervisory Patent Examiner, Art Unit 2111